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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 12/04/2009

Charles N J Ruggiero
Ohlandt Greeley Ruggiero & Perle
One Landmark Square 10th Floor
Stamford, CT 06901-2682

EXAMINER NGUYEN, HUNG D

ART UNIT PAPER NUMBER

DATE MAILED: 12/04/2009

 APPELICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFERMATION NO.

 10/516,721
 01/17/2006
 John Norrish
 653.0019USX
 9895

TITLE OF INVENTION: CONTROL METHOD AND SYSTEM FOR METAL ARC WELDING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	03/04/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THE APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions	ng the Patent, ad nerwise in Block	vance o	rders and notification a) specifying a new o	of n	naintenance fees w pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	com	espondence address as "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.						
One Landmark S	Ruggiero & Perle Square 10th Floor	/2009			I her State addr trans	Cert reby certify that thi es Postal Service w essed to the Mail smitted to the USP	tificate is Fee(s ith suf Stop FO (57	of Mailing or Trans s) Transmittal is being ficient postage for firs ISSUE FEE address I) 273-2885, on the d	miss dep it cla abor ate in	ion tosited with the United as mail in an envelope we, or being facsimile adicated below.
Stamford, CT 06	901-2682									(Depositor's name)
					_					(Signature)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO		ATTORNEY DOCKET NO.		RNEY DOCKET NO.	C	ONFIRMATION NO.
10/516,721	01/17/2006			John Norrish				653.0019USX		9895
TITLE OF INVENTION										
APPLN, TYPE	SMALL ENTITY	ISSUE FEE I	DUE	PUBLICATION FEE I	OUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	\perp	DATE DUE
nonprovisional	YES	\$755		\$300	_	\$0		\$1055		03/04/2010
	EXAMINER		Т	CLASS-SUBCLASS	3					
NGUYEN,		3742		219-137710		atent front page, lis				
I. Change of correspondence address or indication of "Fee Address" (37 CFR 1.85). Change of correspondence address for Change of Correspondence Address from PTO/SB/123 landached. The Address Findication for "Fee Address" indication form PTO/SB/123 landached. Use of a Customer Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON			ndence n stomer	(1) the aames of up to 3 registered patent attorneys 1 c agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 1 listed, no name will be printed.						
	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no a pletion of this for	assignee m is NO	data will appear on t T a substitute for filin (B) RESIDENCE: (6	he pa g an a	atent. If an assigne assignment. and STATE OR C	OUNT	RY)		
4a. The following fee(s)					(Plea sed.	se first reapply an	y prev	lously paid issue fee		
Advance Order - # of Copies				The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
	s SMALL ENTITY state	is. See 37 CFR I						TITY status. See 37 CI		
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be tes Patent and Tr	accepte	d from anyone other t Office.	han th	he applicant; a regi	stered a	ittorney or agent; or th	e as:	signee or other party in
Authorized Signature						Date				
Typed or printed name			Registration No.							
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC k13-1450.	EFR 1.311. The ir U.S.C. 122 and USPTO. Time rden, should be s O NOT SEND FE	aformati 37 CFR will vary ent to th ES OR	on is required to obtain 1.14. This collection of depending upon the de Chief Information C COMPLETED FORM	n or n is est indiv Office IS TO	etain a benefit by the imated to take 12 m idual case. Any co r, U.S. Patent and D THIS ADDRESS	ne publ ninutes mment Traden	ic which is to file (and to complete, includin s on the amount of tir ark Office, U.S. Dep D TO: Commissioner	g ga ne y artm for F	the USPTO to process) thering, preparing, and ou require to complete ent of Commerce, P.O. latents, P.O. Box 1450,

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UNITED STATES PATENT AND TRADEMARK OFFICE

NITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Offic Address: COMMISSIONER FOR PATENTS

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DATE MAILED: 12/04/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/516,721	01/17/2006	John Norrish	653.0019USX	9895		
75	590 12/04/2009	EXAMINER				
Charles N J Rugs	giero	NGUYEN, HUNG D				
Ohlandt Greeley R		ART UNIT	PAPER NUMBER			
One Landmark Sq Stamford, CT 0690		3742				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 590 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 590 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/516,721	NORRISH ET AL.	
Examiner	Art Unit	
HUNG NGUYEN	3742	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 9/18/2009.
- The allowed claim(s) is/are 30-56.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) X All b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. __
 - 3. X Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-946).
- 3. Information Disclosure Statements (PTO/SB/08),
- Pacer No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application 6 Interview Summery (PTO-413).
 - Paper No./Mail Date
- T Examiner's Amendment/Comment 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other

11/20/2009

/HUNG NGUYEN/ Examiner, Art Unit 3742

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

/Quang T Van/ Primary Examiner, Art Unit 3742 Application/Control Number: 10/516,721 Page 2

Art Unit: 3742

DETAILED ACTION

REASON FOR ALLOWANCE

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Artelsmair et al. (US Pub. 2008/0156781) discloses a method for controlling and/or regulating a welding apparatus. Ogasawara et al. (US Pat.

4,546,234) discloses an output control of short circuit welding power source.

2. The following is an examiner's statement of reasons for allowance: allowance of claims 30-56 is indicated because the prior art of record does not show or suggest a dynamically regulating a rate of advancement and reversal of said consumable electrode within a short circuit welding cycle and instantaneously altering a melting rate of said consumable electrode during each of said plurality of welding cycles in response to a predetermined voltage variations that are indicative a short circuit or a short circuit rupture event that occurs during said short circuit welding cycle as recited in claims 30-56.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 3742

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUNG NGUYEN whose telephone number is (571)270-7828. The examiner can normally be reached on Monday-Friday, 9M-6PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu Hoang can be reached on (571)272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Quang T Van/ Primary Examiner, Art Unit 3742 /HUNG NGUYEN/ Examiner, Art Unit 3742 11/19/2009